SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND WIRELESS LOCAL AREA NETWORK COMMUNICATIONS

Abstract of the Disclosure

A frame format provides for wideband wireless local area network communications and informs narrower-band communication units when the channels are occupied by wider-band communication units. In some embodiments, the frame format includes a channelization field identifying channels that are used for communicating subsequent wideband fields of a packet, and a wideband-header field communicated on the identified channels. The wideband-header field may identify sub-fields that may be present in the wideband-header field, and may identify the presence of a wideband-data field. A long-compatibility field may be present that provides protection at the MAC level. The long-compatibility field may transport MAC frames that may include medium-reservation information compatible with narrower-band communication units.

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